111.6 - Refractories (powder form)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	76a	77a	78a	154c***	198	199	671	672	673
Description	Burnt Refractory (Al203-40%)	Burnt Refractory (Al203-60%)	Burnt Refractory (Al203-70%)	Titanium Dioxide	Silica Brick	Silica Brick	Nickel Oxide, No. 1	Nickel Oxide, No. 2	Nickel Oxide, No. 3
Unit of Issue	(75 g)	(75 g)	(75 g)	(90 g)	(45 g)	(45 g)	(25 g)	(25 g)	(25 g)

Concentration are expressed as mass fraction, in % (unless noted by an asterisk* for mg/kg)

Aluminum (Al)						0.009	0.004	0.001
Aluminum oxide (Al ₂ O ₃)	38.7	60.2	71.7	0.16	0.48			
Antimony (Sb)						(0.4*)	(0.5*)	(<0.5*)
Arsenic (As)						(59*)	(74*)	(0.4*)
Bismuth (Bi)						0.07*	0.3*	0.06*
Cadmium (Cd)						(0.7*)	(1.7*)	(0.5*)
Calcium oxide (CaO)	0.22	0.05	0.11	2.71	2.41			
Chromium (Cr)						0.025	0.003	0.0003
Cobalt (Co)						0.31	0.55	0.016
Copper (Cu)						0.20	0.018	0.002
Gallium (Ga)						(0.8*)	(0.4*)	(<0.1*)
Iron (Fe)						0.39	0.079	0.029
Iron Oxide (Fe ₂ O ₃)**	1.60	1.00	1.2	0.66	0.74			
Lead (Pb)						16*	38*	3.5*
Lithium oxide (Li ₂ O)	0.042	0.025	0.12	0.001	0.002			

Concentration are expressed as mass fraction, in % (unless noted by an asterisk* for mg/kg)

(0.34)	(0.22)	(0.42)	0.21	0.17			
					0.030	0.020	0.003
0.52	0.38	0.70	0.07	0.13			
					0.13	0.095	0.0037
			0.008	0.007			
0.120	0.092	1.3	0.022	0.015			
	0.52	0.52 0.38	0.52 0.38 0.70	0.52 0.38 0.70 0.07	0.52 0.38 0.70 0.07 0.13 0.008 0.007	0.030 0.52 0.38 0.70 0.07 0.13 0.13 0.008 0.007	0.030 0.020 0.52 0.38 0.70 0.07 0.13 0.13 0.095 0.008 0.007

Certified values are normal fontReference values are italicizedValues in parentheses are for information only

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$ \begin{array}{c} \textbf{Potassium oxide} \\ (\textbf{K}_2\textbf{O}) \end{array} $	1.33	0.090	1.22	0.017	0.094			
Selenium (Se)						2.0*	0.40*	0.2*
Silicon (Si)						0.047	0.11	0.006
Silicon dioxide (SiO_2)	54.9	35.0	19.4					
Silver (Ag)						(0.5*)	(0.3*)	(<0.1*)
Sodium oxide (Na ₂ O)	0.07	0.037	0.078	0.012	0.015			
Strontium oxide (SrO)	0.037	0.009	0.25					
Tellurium (Te)						(<0.2*)	(<0.2*)	(0.4*)
Thallium (TI)						(<0.1*)	(<0.1*)	(<0.1*)
Tin (Sn)						(2.7*)	(4*)	(<0.5*)

Concentration are expressed as mass fraction, in % (unless noted by an asterisk* for mg/kg)

Titanium (Ti)							0.024	0.009	0.003
Titanium dioxide (TiO ₂)	2.03	2.66	3.22	99.591	0.02	0.06			
Zinc (Zn)							(160*)	(140*)	(1.7*)

^{***} Information values are provided for additional 71 elements

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